

## Abstract

A measuring system uses light seconds as its base measurement, and particularly defines a new foot as one billionth of a light second. Based on a speed of light of 186,282.3970512 current miles per light second, a new foot of the measuring system equals 11.80285267716 conventional inches. The system also defines 10 new inches as a new foot, and a new inch would equal 1.180285267716 old inches or one tenth of a new foot. A new mile would equal 5,000 new feet. A ratio of 1.5 is used to convert to new metric units so that a new kilometer is 1.5 times a new mile.